PROFESSIONAL DATA ACQUISITION AT A SPORTSMAN PRICE

It's no secret that successful racers rely on data acquisition systems to give them the winning edge, but until now they have been too expensive for the average racer. From pro class competitors to weekend warriors, Edelbrock's QwikData data acquisition systems offer all of the benefits of a higher priced unit at a fraction of the cost. All QwikData Systems feature a 32-bit Motorola processor, 1-mb of non-volatile memory, real-time display, rpm and voltage input, fully assembled wiring harness, analysis software, user's manual, and internet upgrade download capability.

30 Channel Advanced Drag Racing QwikData Package #91004

FEATURES INCLUDE:

Adjustable High-Speed Data Logging — With the ability of sampling data at extremely high rates, QwikData outperforms the competition. Data sample rates are adjustable, up to 500 samples per second.

Up To 30 Data Input Channels — The basic unit comes equipped with 8 analog inputs and 6 digital inputs. The advanced unit has 24 analog input channels and 6 digital inputs. The digital inputs can record on/off events, frequency (such as mph, rpm and digital mass air flow sensor), or duty cycle (such as fuel injectors and turbo boost controller).

Windows® Interface — The computer software provided is simple and intuitive to use. An IBM-based 486 (or better) laptop computer capable of running Windows® 3.1 (or later) or 98SE, NT, 2000, XP software is required for data analysis. The entire system can be configured from menus using a mouse. No complicated programming is required.

Large Data Storage Capacity — QwikData provides 1 MB of non-volatile memory, much more than most other systems, and requires no power to retain data.

Programmable Outputs — The two provided outputs can be programmed to operate shift lights, warning lights, etc. These outputs are configured via pull-down menus and can be activated based on any one or two of the input channels.

Sophisticated Data Analysis — Trend graphs of 8 user selectable input channels against time or distance.

Multiple Lap/Run Comparison — Runs or laps can be stored and overlaid.

Real Time Display — Use for monitoring engine during warm-up, in dyno sessions and troubleshooting with a PC connected.

Internet Upgrades — The software embedded in the QwikData unit is stored in a chip (FLASH EPROM) and can be updated easily from the Edelbrock web site at **www.edelbrock.com.**

Fully Assembled Wiring Harness — Pre-installed connectors provided. Each sensor is supplied with the appropriate mating connector for quick and easy installation.

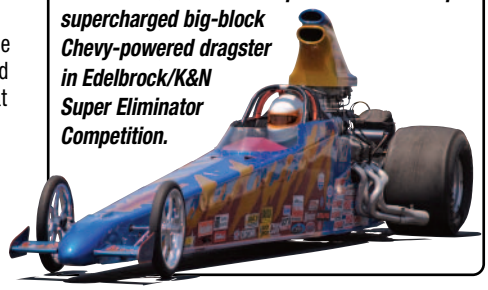
Durable Construction — Features include laser-cut end plates with gaskets, anodized aluminum enclosure, and high-quality silicone sealed connectors.

Internal Accelerometers — Measure longitudinal and lateral acceleration.

Expandability — Add more sensors for additional parameters.

Racer's Report

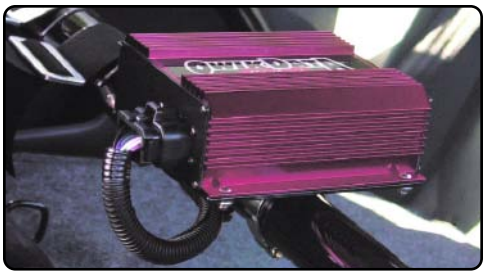
Congratulations to Mike Solina who uses Edelbrock QwikData to help dial-in his 190 mph supercharged big-block Chevy-powered dragster in Edelbrock/K&N Super Eliminator Competition.



P/N	Package Description	Channel Details Analog	Channel Details Digital	Built In Accelerometer	Brake On/Off Input	Wheel/Speed Shaft Sensor	EGT Thermocouple (TK)	General Purpose Temp. Thermocouple (TK)	Type-K Thermocouple Signal Converter	Pressure Sensors	Linear Potentiometer	String Potentiometer	Throttle Position Sensor	Additional Free Channels Analog	Additional Free Channels Digital
#91001	Basic (14 Channel)	8	6	2	Incl.	1	-	-	-	-	-	-	-	5	3
#91003	Bracket Racing (14 Channel)	8	6	1	Incl.	1	2	2	1	2	-	-	-	-	3
#91005	4 Cylinder Drag Racing (14 Channel)	8	6	1	Incl.	1	4	-	1	2	-	-	-	-	3
#91004	Advanced Drag Racing (30 Channel)	24	6	2	Incl.	2	8	3	3	4	-	-	-	6	2
#91009	Advanced Pro System (30 Channel)	24	6	2	Incl.	2	8	3	3	-	-	-	-	10	2
#91007	CircleTrack/Road Racing (30 Channel)	24	6	2	Incl.	2	-	-	-	1	4	1	1	14	2

*For tech support call the toll-free Edelbrock Tech Line at **1-800-416-8628** or send us an Email: **qd@edelbrock.com***

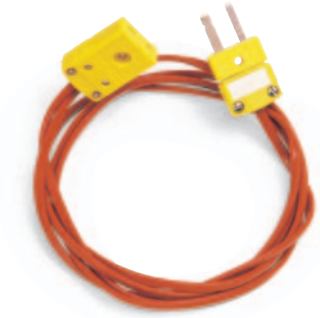
QWIKDATA DATA ACQUISITION SYSTEMS



QwikData ECU Installed

Bracket Racing Wiring Harness #91103

TK -4 Thermocouple Signal Converter #91108



General Purpose Thermocouple Extension Wiring Harness #91111

USB to Serial Communications Cable #91147

QWIKDATA ACCESSORIES

Electronic Control Units

Basic ECU (32 bit processor, 8 analog channels & 6 digital channels).....**#91100**
Building a custom QwikData may be your solution. Simply combine ECU, harness and desired sensors to build your own data acquisition system.

Advanced ECU (32 bit processor, 24 analog channels & 6 digital channels).....**#91101**
This is the most powerful and flexible QwikData ECU available. Select this ECU to configure your own professional data acquisition package. Simply combine ECU, harness and desired sensors to prepare and dominate in any racing discipline.

Basic ECU Upgrade (original ECU must be sent to Edelbrock).....**#91102**
QwikData is expandable. If you already own a Basic QwikData ECU and are ready to step up to the next level, send us your ECU. We'll upgrade your ECU to match the specs for the Advanced unit (see above). Must purchase Advanced Drag Racing Harness #91104.

Wiring Harnesses

Bracket Racing Wiring Harness (8 analog channels & 6 digital channels).....**#91103**
This fully assembled wiring harness can be used as part of your custom tailored QwikData package or as a replacement harness for the Bracket Racing Package.

Advanced Drag Racing Harness (24 analog channels & 6 digital channels).....**#91104**
This fully assembled wiring harness can be used as part of a custom tailored professional level QwikData package or as a replacement harness for the Advanced Drag Racing Package.

Analog Input Extension Wiring Harness.....**#91106**
4 ft. plug in extension harness to extend the analog channel wiring. One harness extends 4 analog inputs.

PC Desktop Harness.....**#91107**
Mini harness with 120V AC adapter allows you to easily download stored runs from QwikData at home, office or race trailer.

Electronics

USB to Serial Communications Cable.....NEW.....**#91147**
This adapter cable will convert a Laptop or PC USB port to a 9-pin RS232 serial communications connector. Software driver CD included. Included in each QwikData kit.

TK Sensors & Signal Processors

TK -4 Thermocouple Signal Converter.....**#91108**
Conditions four Type K thermocoupler signals to a 0-10V signal for use with QwikData.

General Purpose Thermocouple Extension Wiring Harness.....**#91111**
4 ft. cable and plugs to extend general purpose thermocouple harness to TK-4 thermocouple converter.

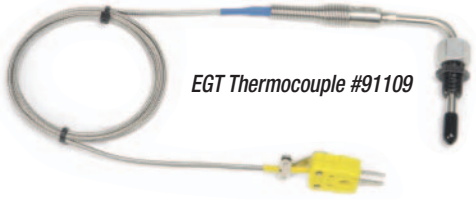
EGT Thermocouple (analog, 1/8" NPT).....**#91109**
90° EGT probe installs in exhaust headers to monitor combustion. Use in conjunction with TK thermocouple signal converter. Includes: EGT Probe, 1/8" NPT steel weld-in bung and 4 ft. stainless braided cable.

EGT Weldment Kit (2 per package).....**#91128**
1/8" NPT steel weld in bung for mounting EGT Probe into exhaust headers.

EGT Probe Compression Fitting.....**#91140**
Replacement steel fitting to be used when removing an EGT probe or replacing an exhaust header. Includes: ferrule and 1/8" NPT compression fitting.

General Purpose Thermocouple (analog).....**#91110**
Straight temperature sensor used for monitoring critical fluid temperatures such as water, oil, fuel, intake charge, transmission, etc. Use in conjunction with TK thermocouple signal converter #91108. Includes: stainless sensor and 1/8" NPT stainless compression fitting. Temp. range: 48° F to 1830° F.

EGT Weldment Kit #91128



EGT Thermocouple #91109

Non-Contact Thermocouple #91120

Linear Potentiometer #91124

Wheel/Shaft Speed Sensor Kit #91115

Pressure Transducer #91112, #91113, #91114, #91138

Fuel Flow Meter #91122, #91125, #91126

Driveshaft Speed Sensor Kit #91195, #91196

QWIKDATA SENSORS, THERMOCOUPLERS & METERS

Non-Contact Thermocouple (analog) .....#91120
Infrared temperature sensor commonly used for monitoring tire, track, cylinder head and other temperatures. Range: 32° to 662° F.

String Potentiometer (analog).....#91123
Range: 0-5". For measuring throttle position, steering angle, chassis flex, etc.

Linear Potentiometer (analog) .....#91124
Range: 0-5". Includes dual rod ends to measure suspension travel, steering angle, etc.

Pressure Transducer (0-15 PSI, analog).....#91138
1/8" NPT stainless steel pressure sensor. Monitor turbo/supercharger boost, fuel pressure, etc.

Pressure Transducer (0-100 PSI, analog) .....#91112
1/8" NPT stainless steel pressure sensor. Monitor turbo/supercharger boost, oil pressure, etc.

Pressure Transducer (0-500 PSI, analog).....#91113
1/8" NPT stainless steel pressure sensor. Monitor fuel pressure, transmission pressure, etc.

Pressure Transducer (0-2500 PSI, analog).....#91114
1/8" NPT stainless steel pressure sensor. Monitor brake pressure, nitrous bottle pressure, etc.

Fuel Flow Meter (digital).....#91122
-8AN inlet/outlet. Range: 1-10 gallons per minute. Turbine meter to measure fuel flow volume. Fuels: all racing gasolines and methanol.

Fuel Flow Meter (digital).....#91125
-10AN inlet/outlet. Range: 1.25-12.5 gallons per minute. Turbine meter to measure fuel flow volume. Fuels: all racing gasolines, methanol and nitro.

Fuel Flow Meter (digital).....#91126
-12AN inlet/outlet. Range: 2-20 gallons per minute. Turbine meter to measure fuel flow volume. Fuels: All racing gasolines, methanol and nitro.

Vacuum Transducer (0-28.9 In. HG, analog) .....#91137
1/8" NPT stainless steel vacuum sensor for tuning.

Shaft Sensor (magnetic).....#91116
Replacement sensor for all magnetic type shaft speed sensors.

Cobalt Magnet (2 per package).....#91117
Replacement rare earth magnets for all shaft speed sensors.

Wheel/Shaft Speed Sensor Kit (digital).....#91115
Magnetic type sensor for monitoring converter slip, clutch slip or to use as a replacement sensor for wheel/driveshaft sensor kits. Includes: sensor and two cobalt magnets.

Digital Driveshaft Speed Sensor Kit (3.125 O.D. X 1.875 I.D.).....#91195
CNC machined billet aluminum collar for monitoring driveshaft rotation. Includes: 2 piece anodized aluminum collar, four cobalt magnets, magnetic speed sensor and mounting bracket.

Digital Driveshaft Speed Sensor Kit (3.125 O.D. X 2.187 I.D.).....#91196
CNC machined billet aluminum collar for monitoring driveshaft rotation. Includes: 2 piece anodized aluminum collar, four cobalt magnets, magnetic speed sensor and mounting bracket.

OPTIONAL PRESSURE SENSORS

TYPICAL SENSOR APPLICATIONS – FOR USE WITH ALL KITS

Application	Part No.	Range	Application Notes
Fuel and Oil Pressure	*91112*	*0-100 PSI*	
Fuel Injection Fuel Pressure and Transmission Line Pressure	*91113*	*0-500 PSI*	
Nitrous and Brake Pressure	*91114*	*0-2500 PSI*	
Crankcase, Barometric and Manifold (Normally Aspirated) Pressure	*91137*	*0-28.9 in/Hg*	*Vacuum Only*
Fuel Pressure (Carburetor, Nitrous Wet System), Manifold Pressure (Boosted Applications)	*91138*	*0-15 PSI*	*Positive Pressure Only*